

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:09:11 ; Search time 8498.8 Seconds

(without alignments)
31.610 Million cell updates/sec

Title: US-09-851-670-4

Perfect score: 25

Sequence: 1 acagtagcagcacagcatgagacc 25

Scoring table: IDENTITY-NUC

Gapop 10.0 , Gapext 1.0

Searched: 11351937 seqs, 5372889281 residues 111874

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 60

Post-processing:

Maximum Match 0%
Listing first 45 summaries

Database :
1: em_estfun:*
2: em_estlin:*
3: em_estlin:*
4: em_estlin:*
5: em_estlin:*
6: em_estlin:*
7: em_estlin:*
8: em_estlin:*
9: em_hic:*
10: gb_estl:*
11: gb_estl:*
12: gb_hic:*
13: gb_hic:*
14: em_gss:*
15: em_gss:*
16: em_gss:*
17: em_gss:*
18: em_gss:*
19: em_gss:*
20: em_gss:*
21: em_gss:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	16.2	64.8	58	10	A1759324
2	16	64.0	32	11	N40655
3	16	64.0	55	11	BF346180
4	15.2	60.8	52	10	AA996148
5	15	60.0	38	13	AA025540
6	15	60.0	49	11	H66141
7	14.8	59.2	52	11	C20867
8	14.8	59.2	53	13	TA180E05P
9	14.8	59.2	57	13	A2616824
10	14.6	58.4	24	13	A2779573
11	14.6	58.4	27	13	A2404206
12	14.6	58.4	35	13	A2861400

C 13	14.4	57.6	40	13	A2832139	A2832139
C 14	14.4	57.6	51	13	A2488023	A2488023
C 15	14.4	57.6	53	13	TA263C05P	AL438302 T. brucei
C 16	14.4	56.0	46	10	AT884025	AT884025
C 17	14.4	56.0	50	10	AU103544	AU103544
C 18	14.4	56.0	50	10	AU104442	AU104442
C 19	14.4	56.0	52	10	AA856040	AA856040
C 20	14.4	56.0	52	10	AA615079	AA615079
C 21	13.8	55.2	50	10	AU102281	AU102281
C 22	13.8	55.2	50	10	AU105836	AU105836
C 23	13.8	55.2	57	10	BE408921	BE408921
C 24	13.6	54.4	28	10	AU1755903	AU1755903
C 25	13.6	54.4	56	10	AA587506	AA587506
C 26	13.6	54.4	60	13	A2651227	A2651227
C 27	13.4	53.6	50	10	AU102654	AU102654
C 28	13.4	53.6	52	10	BE321070	BE321070
C 29	13.4	53.6	56	13	A2820546	A2820546
C 30	13.2	52.8	21	13	A2831993	A2831993
C 31	13.2	52.8	38	13	A2971376	A2971376
C 32	13.2	52.8	39	13	A2635338	A2635338
C 33	13.2	52.8	44	10	AV836720	AV836720
C 34	13.2	52.8	50	10	AV833524	AV833524
C 35	13.2	52.0	32	13	TA337F070	TA337F070
C 36	13.2	52.0	37	13	A2807121	A2807121
C 37	13.2	52.0	41	10	AA509356	AA509356
C 38	13.2	52.0	43	10	AA937113	AA937113
C 39	13.2	52.0	50	11	BF537767	BF537767
C 40	13.2	52.0	53	13	AF179999	AF179999
C 41	13.2	52.0	53	13	AF180000	AF180000
C 42	13.2	52.0	54	11	BF163806	BF163806
C 43	13.2	52.0	56	13	HSWC02B06	HSWC02B06
C 44	13.2	52.0	59	10	AM687832	AM687832
C 45	13.2	52.0	60	13	A2623437	A2623437

ALIGNMENTS

RESULT 1
A1759324
LOCUS EESTea27b06.y1 Eimeria S5-2 Sporozoite stage Eimeria tenella CDNA
DEFINITION A1759324.1 GI:5174991
ACCESSION A1759324
VERSION A1759324.1
KEYWORDS EST.
SOURCE Eimeria tenella
ORGANISM Eimeria tenella

REFERENCE
AUTHORS
LIBERATOR, P., DIAZ, C., TANG, K., MARA, M., HILLIER, L., KUCABA, T., MARTIN, J., WYLLIE, T., UNDERWOOD, K., STEPHEN, M., THEISING, B., ALLEN, M., BOWERS, Y., PERSON, B., SWALLER, T., GIBBONS, M., PAPER, D., HARVEY, N., SCHURK, R., RITTER, E., KOHN, S., FLORENCE, N., SHIN, T., JACKSON, Y., CARDENAS, M., MCCANN, R., WATSON, R., WILSON, R. and Sibley, D. Mashu-Merck Eimeria tenella project
Unpublished (1999)
Contact: David Sibley, Ph.D.
Washington University School of Medicine
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.wustl.edu

TITLE
JOURNAL
COMMENT
Contact David Sibley (toxest@wustl.wustl.edu) for further information relating to organism, libraries, or clone availability.
Trace considered overall poor quality
Seq primer: -40RP from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1. 58
/organism="Eimeria tenella"

FEATURES
source

/strain="LS18"
/db_xref="taxon:5802"
/clone_lib="Elmeria S5-2 sporozoite stage"
/dev_stage="Sporozoite"
/lab_host="SOLR E. coli"
/note="Vector: Bluescript SK-; Site_1: EcoRI, Site_2: XhoI
; Sporozoites were obtained from in vitro sporulated and
excysted oocysts of E. tenella grown in chickens. cDNA
was synthesized from poly mRNA using an oligo-dT primer
containing a XhoI site. Following second strand synthesis,
EcoRI adapters were ligated to the cDNA and products were
size-selected on Sephacryl S500. cDNAs were digested with
EcoRI/XhoI and cloned into lambda Zap II (Stratagene).
Clones were converted to phagemids by mass excision using
Exassist helper phage and SOLR cells (Stratagene).
Insert sizes range from 1.2-2.9 kb."

BASE COUNT 19 a 17 c 20 g 2 t
ORIGIN

Query Match 64.8%; Score 16.2; DB 10; Length 58;
Best Local Similarity 85.7%; Pred. No. 1.1e+04;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 cagtagcagcaacagcatgag 22
Db 38 CAGCAGCAGCAGCAGCAGCAG 58

RESULT 2
LOCUS M40655 32 bp mRNA EST 22-JAN-1996
DEFINITION yw/8b10.r1 Soares,Placenta,8to9weeks,2NBHP8to9W Homo sapiens cDNA
clone IMAGE:258311 5' similar to gb:M5531 GLUCOSE TRANSPORTER TYPE
5, SMALL INTESTINE (HUMAN);, mRNA sequence.

ACCESSION M40655
VERSION N40655.1 GI:1164252
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Mammalia: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 32)
Hillier, L., Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
, M., Hultman, M., Kucaba, T., Le, M., Lennon, G., Marra, M., Parsons, J.,
Ritkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston
, R., Williamson, A., Wohlmann, P. and Wilson, R.
The WashU-Merck EST Project
Unpublished (1995)
Contact: Wilson RK

TITLE Washington University School of Medicine
JOURNAL 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
COMMENT Tel: 314 286 1800
Fax: 314 286 1810
Email: est@wustl.edu

High quality sequence starts: 1
High quality sequence stops: 1
Source: IMAGE Consortium, LNLN
This clone is available royalty-free through LNLN; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
Trace considered overall poor quality
Seq primer: T7
High quality sequence stop: 1.
Location/Qualifiers
1..32
/organism="Homo sapiens"
/db_xref="GDB:3887941"
/db_xref="taxon:9606"
/clone="IMAGE:258311"
/clone_lib="Soares,Placenta,8to9weeks,2NBHP8to9W"
/dev_stage="two placentae: one from 8 weeks and another
from 9 weeks post conception"
/lab_host="DH10B (ampicillin resistant)"

/note="Organ: Placenta; Vector: pT73D (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCATCTGCAAGTGGAGCGCCGCCGATTTTCTTTTCTTTT 3']
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library constructed by Bento Soares and
M.Fatima Bonaldo."

BASE COUNT 2 a 9 c 12 g 8 t 1 others
ORIGIN

Query Match 64.0%; Score 16; DB 11; Length 32;
Best Local Similarity 79.2%; Pred. No. 1.2e+04;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 2 cagtagcagcaacagcatgagcc 25
Db 32 CAGCAGCAGCAGCAGCAGCAGCC 9

RESULT 3
LOCUS BF346180 55 bp mRNA EST 22-NOV-2000
DEFINITION 602017646F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153474
5', mRNA sequence.

ACCESSION BF346180
VERSION BF346180.1 GI:11293775
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Mammalia: Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS 1 (bases 1 to 55)
JOURNAL Mammalia: Eutheria; Primates; Catarrhini; Homiidae; Homo.
Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
http://image.lnl.gov
Plate: LLM9421 row: k column: 11
High quality sequence stop: 53.

High quality sequence stop: 53.
Location/Qualifiers
1..55
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4153474"
/clone_lib="NCI_CGAP_Brn67"
/tissue_type="anaplastic oligodendroglioma with 1p/19q
loss"

/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: brain; Vector: pCMV-Sport6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 2.3 kb. Constructed by Life
Technologies. Note: this is a NCI_CGAP library."

BASE COUNT 4 a 15 c 26 g 10 t
ORIGIN

Query Match 64.0%; Score 16; DB 11; Length 55;
Best Local Similarity 79.2%; Pred. No. 1.3e+04;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 2 cagtagcagcaacagcatgagcc 25
Db 24 CAGCAGCAGCAGCAGCAGCAGCC 1

RESULT 4
AA96148
LOCUS
DEFINITION
AA96148 52 bp mRNA EST 13-APR-1999
os1411.s1 NCI_CGAP_Lu5 Homo sapiens CDNA clone IMAGE:1605309 3'
similar to SW:ASH1_HUMAN P50553 ACHAEFE-SCUTE HOMOLOG 1.; mRNA
sequence.
ACCESSION
VERSION AA96148.1 GI:3182637
KEYWORDS
SOURCE
ORGANISM
human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 52)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL
COMMENT
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-femail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 753 Std Error: 0.00
Seq primer: -40ml3 fwd. RT from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 52
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1605309"
/clone_lib="NCI_CGAP_Lu5"
/tissue_type="carcinoid"
/lab_host="DH10B"
/note="Organ: lung; Vector: pRT3D-Pac (Pharmacia) with a
modified polylinker; 1st strand CDNA was prepared from
neuroendocrine lung carcinoid, and was then primed with a
Not I - oligo(dT) primer. Double-stranded CDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
pRT3 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT
12 a 19 c 16 g 5 t
ORIGIN

Query Match 60.8%; Score 15.2; DB 10; Length 52;
Best Local Similarity 85.0%; Pred. No. 2.5e+04;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 cagtagcagcacacagcatga 21
||| ||||| ||||| |
Db 5 CAGCAGCAGCAGCAGCATCA 24

RESULT 5
AA02540
LOCUS
DEFINITION
AA02540 38 bp DNA GSS 23-AUG-2000
EF(X)1614-5prine Drosophila melanogaster EP line Drosophila
melanogaster genomic Sequence recovered from 5' end of P element,
DNA sequence.
ACCESSION
VERSION AA02540.1 GI:3265892
KEYWORDS
GSS.

SOURCE
ORGANISM
fruit fly.
Drosophila melanogaster
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.
REFERENCE
1 (bases 1 to 38)
Liao,G.-C., Rehm,E.J. and Rubin,G.M.
Insertion site preferences of the P transposable element in
Drosophila melanogaster
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3347-3351 (2000)
20202638
JOURNAL
COMMENT
Contact: Gerald Rubin
Berkeley Drosophila Genome Project
University of California, Berkeley
LSA Building, Berkeley, CA 94720-3200, USA
Fax: 5106439947
Email: gergy@fruitfly.berkeley.edu
Sequence recovery method was inverse PCR.
Sequence orientation is forward strand relative to 5' end of P
element

The P element insertion position is base 31 in the 38 bases. This
insertion position refers to the first base of the 8 base target
recognition sequence.
Class: transposon-tagged.
Location/Qualifiers
1. 38
/organism="Drosophila melanogaster"
/db_xref="taxon:7227"
/clone_lib="Drosophila melanogaster EP line"
/note="Inverse PCR was performed on Drosophila
melanogaster strains each of which contains a single EP
transposable element insertion. (The generation of these
insertion strains is described in Roth P, Szabo K, Bailey
A, Laverly T, Rehm J, Rubin GM, Weigmann K, Milan M, Benes
V, Ansoerg M, Cohen SM. 1998. Systematic gain-of-function
genetics in Drosophila. Development 6:1049-1057.) The
resultant fragment for each strain was directly sequenced
to determine the genomic sequence at the site of
insertion. Details of the protocols used can be found at
http://fruitfly.berkeley.edu/P_p_disrupt/inverse_pcr.html."

BASE COUNT
14 a 7 c 11 g 6 t
ORIGIN

Query Match 60.0%; Score 15; DB 13; Length 38;
Best Local Similarity 78.3%; Pred. No. 2.9e+04;
Matches 18; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 acagtagcagcacacagcatga 23
||||| ||| | ||| |||
Db 9 ACAGTATCAGCAGCAGATTGAGA 31

RESULT 6
H66141/c
LOCUS
DEFINITION
H66141 49 bp mRNA EST 18-OCT-1995
yu16e05.s1 Soares fetal liver spleen INFLS Homo sapiens CDNA clone
IMAGE:233984 3' similar to gb|U87903|HUMAN|NE36 Human carcinoma
cell-derived Alu RNA transcript. (rRNA): gb:M55531 GALACTOSIDE
2-L-FUCOSYLTRANSFERASE (HUMAN); mRNA sequence.
ACCESSION
VERSION H66141.1 GI:1024881
KEYWORDS
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 49)
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman
M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,
Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevashtis,E., Waterston

Db 40 AGCAGCAGCAGCAGCAGA 23

||||| ||||| |||||

RESULT 9

A2616824 57 bp DNA

GSS 13-DEC-2000

LOCUS 1M0446L15R Mouse 10kb plasmid UGCC1M library Mus musculus genomic

clone UGCC1M0446L15 R, DNA sequence.

ACCESSION

A2616824

GSS

VERSION

A2616824.1 GI:11739014

KEYWORDS

house mouse.

SOURCE

Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

1 (bases 1 to 57)

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000

Std Error: 0.00

Plate: 0446

row: L column: 15

Seq primer: CACACGAGAACACGCTATGACC

Class: plasmid ends

High quality sequence stop: 57.

Location/Qualifiers

1.57

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UGCC1M0446L15"

/clone_lib="Mouse 10kb plasmid UGCC1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pMD42 (g11473211419b1AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

BASE COUNT

ORIGIN

0 a

7 c

25 g

25 t

Query Match

Best Local Similarity

Matches

16; Conservative

59.2%; Score 14.8; DB 13; Length 57;

88.9%; Pred. No. 3.6e+04;

Mismatches 0; Indels 0; Gaps 0;

QY 1 acagtagcagcagcagca 18

||||| ||||| |||||

Db 30 ACAGCAGCAGCAGCAGCA 13

RESULT 10

A2779573

GSS 16-FEB-2001

LOCUS 2M0016K09F Mouse 10kb plasmid UGCC1M library Mus musculus genomic

clone UGCC2M0016K09 F, DNA sequence.

ACCESSION

A2779573

GSS

VERSION

A2779573.1 GI:12910362

KEYWORDS

house mouse.

SOURCE

Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

1 (bases 1 to 24)

AUTHORS

Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000

Std Error: 0.00

Plate: 0016

row: K column: 09

Seq primer: CGTTGTAAACGACGCCAGCT

Class: plasmid ends

High quality sequence stop: 24.

Location/Qualifiers

1.24

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UGCC2M0016K09"

/clone_lib="Mouse 10kb plasmid UGCC1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA

was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were

ligated to the blunt ends in high molar excess. The

adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel

electrophoresis. Vector DNA was prepared from a derivative

of pMD42 (g11473211419b1AF129072.1), a copy-number

inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and

purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into

chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

BASE COUNT

ORIGIN

8 a

8 c

8 g

0 t

Query Match

Best Local Similarity

Matches

17; Conservative

58.4%; Score 14.6; DB 13; Length 24;

81.0%; Pred. No. 3.8e+04;

Mismatches 0; Indels 0; Gaps 0;

QY	2	cagtagcagcaacagcatgag	22
Db	2	CAGCAGCAGCAGCAGCAGCAG	22

RESULT	11
AZ404206/c	
LOCUS	AZ404206
DEFINITION	AZ404206 27 bp DNA GSS 03-OCT-2000
ACCESSION	U01712120F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
VERSION	AZ404206
KEYWORDS	clone UUGC1M01712120 F, DNA sequence.
SOURCE	AZ404206.1 GI:10528219
ORGANISM	GSS.
	house mouse.
	Mus musculus

TITLE	Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL	plasmid inserts
COMMENT	Unpublished (2000)
	Contact: Robert B. Weiss

BASE COUNT	0 a	9 c	9 g	9 t
ORIGIN				

Matches	17;	Conservative	0;	Mismatches	4;	Indels	0;	Gaps	0;
Oy	2	cagtagcagcacacagcatgag	22						
Db	27	^AGCAGCAGCAGCAGCAGCAG	7						

RESULT	12
AZ861400	
LOCUS	AZ861400 35 bp DNA GSS 21-FEB-2001
DEFINITION	20167013R Mouse 10kb plasmid UGCG1M library Mus musculus genomic clone U06CGM0167013 R. DNA sequence.
ACCESSION	AZ861400
VERSION	AZ861400.1 GI:13057682
KEYWORDS	GSS.
SOURCE	house mouse.
ORGANISM	Mus musculus

TITLE	Mouse whole genome scaffolding with paired end reads from 10kb
JOURNAL	plasmid inserts
COMMENT	Unpublished (2000)
Contact:	Robert B. Weiss

BASE COUNT	12 a	11 c	12 g	0 t
ORIGIN				

Best Local Similarity 81.0%; Pred. No. 4e+04;
Matches 17; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Oy 2 cagtagcagcaacagcatgag 22
11111111111111111111
Db 3 CAGCAGCAGCAGCAGCAGCAGCAG 23

RESULT 13
A2832139/c

LOCUS 40 bp DNA GSS 20-FEB-2001
DEFINITION 2M0112P14F Mouse 10kb plasmid UGCC1M library Mus musculus genomic

clone UGCC2M0112P14 F, DNA sequence.

ACCESSION A2832139

VERSION A2832139.1 GI:13002047

KEYWORDS GSS.

SOURCE house mouse.

ORGANISM Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 40)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0112 row: P column: 14
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 40.
Location/Qualifiers

FEATURES
Source

1. 40
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0112P14"
/clone.lib="Mouse 10kb plasmid UGCC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114[gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

5 a 11 c 10 g 14 t

Query Match 57.6%; Score 14.4; DB 13; Length 40;
Best Local Similarity 75.0%; Pred. No. 4.8e+04;
Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Oy 1 acagtagcagcaacagcatgagac 24
11111111111111111111
Db 33 ATAGCAGCAGCAGCAGCAGCAGCAG 10

RESULT 14

LOCUS 51 bp DNA GSS 05-OCT-2000
DEFINITION 1M0318J02F Mouse 10kb plasmid UGCC1M library Mus musculus genomic

clone UGCC1M0318J02 F, DNA sequence.

ACCESSION A2488023

VERSION A2488023.1 GI:10656316

KEYWORDS GSS.

SOURCE house mouse.

ORGANISM Mus musculus

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 51)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0318 row: J column: 02
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 51.
Location/Qualifiers

FEATURES
Source

1. 51
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0318J02"
/clone.lib="Mouse 10kb plasmid UGCC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114[gb|AF129072.1], a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

3 a 8 c 23 g 17 t

Query Match 57.6%; Score 14.4; DB 13; Length 51;
 Best Local Similarity 75.0%; Pred. No. 5e+04;
 Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 2 cagtagcagcaacagcatgagacc 25
 ||| | |||| | ||| |||
 Db 45 CACGACCAGCAGCACCATGACACC 22

RESULT 15

TA263C05P 53 bp DNA GSS 13-DEC-2000
 LOCUS T. brucei sheared genomic DNA clone 263c05, forward sequence,
 DEFINITION genomic survey sequence.

ACCESSION AL483802

VERSION AL483802.1 GI:11849892

KEYWORDS GSS.

SOURCE Trypanosoma brucei.

ORGANISM Trypanosoma brucei

Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae;

REFERENCE 1 (bases 1 to 53)

AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
 Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
 Melville, S.E., Rajandream, M.A. and Barrell, B.G.

TITLE Direct Submission

JOURNAL

Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
 Project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
 Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
 nh@sanger.ac.uk

COMMENT

Constructed at the Institute for Genomic Research (TIGR),
 Rockville, MD. Genomic DNA isolated from a cloned population of
 Trypanosoma brucei (TREU927/4 GUTat 10.1) was mechanically sheared
 to give a tight size distribution (4 kb). The v + 1 method used for the library construction is
 described in detail in Smith, H. and Venter, J.C. (Making small
 insert libraries for whole genome shotgun sequencing projects. In
 Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
 Barrell, Oxford University Press, 1999).

Email: nelsayed@tigr.org
 Details of T. brucei sequencing at the Sanger Centre are available
 at http://www.sanger.ac.uk/Projects/T_brucei/.

FEATURES

source

1..53
 /organism="Trypanosoma brucei"
 /strain="TREU927"
 /db_xref="taxon:5691"
 /clone="263c05"

BASE COUNT 5 a 12 c 14 g 22 t
 ORIGIN

Query Match 57.6%; Score 14.4; DB 13; Length 53;
 Best Local Similarity 75.0%; Pred. No. 5e+04;

Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 2 cagtagcagcaacagcatgagacc 25
 ||| | |||| | ||| |||
 Db 36 CACGACCAGCAGCACCATGACACC 13

Search completed: March 9, 2002, 00:09:14
 Job time: 11030 sec